sequence having four binding sites for LexA from *E. coli.* This sequence is from 5' - 3' : GTCGACTGCTGTATATAAAACCAGTGGTTATATGTACAGTACTTGTACTGTA CATATAACCACTGGTTTTATATACAGCAAGCTTGGATCCGTCGAC (SEQ ID NO:1). The 5' side of this sequence comprises a SalI site, the 3' side a HindIII-BamHI-SalI site (all shown in bold type). Downstream from the LexA binding sites in the HindIII and BamHI sites, the human heat shock factor-inducible promoter (0.29 kbp HindIII/NcoI fragment) and the luciferase reporter gene inclusive of SV40 polyadenylation signal (1.9 kbp NcoI/BamHI fragment) are cloned in a three-way ligation. The human heat shock factor-inducible promoter (hsp7O; accession numbers M59828 and M34267; nucleotides 52 to 244) can be obtained by means of PCR amplification on human genomic DNA (Cat. No. 6550-1; Clontech, Palo Alto, USA). As PCR primers, forward primer 5' - 3' : AAGCTTGGGAGTCGAAACTTCTGGAATATTCCCGAACTTTCAGCCGACG ACTTATAAAACGCCAGGGGCAAGC (SEQ ID NO:2) may be considered; and as reverse primer 5' - 3' : CCATGGTTTAGCTTCCTTAGCTCCTGAAAATCTCGCCAAGCTCCCGG GGTCCGCGAGAAGAGCTCGGTCCTTCCGG (SEQ ID NO:3). The forward primer comprises a HindIII site, the reverse primer comprises a NcoI site (given in bold print). The luciferase reporter gene inclusive of SV40 polyadenylation signals were obtained through NcoI/BamHI digestion of the pGL3 control vector (Cat. no E1741; Promega, Madison, USA). In the thus obtained vector, in the HindIII site between the LexA binding sites and the heat shock promoter, either a 2.1 kbp HindIII fragment of phage lambda is cloned (Pharmacia Biotech, Uppsala, Sweden), or a 1.7 kbp scs HindIII fragment. The 1.7 kbp scs DNA fragment is isolated from genomic *Drosophila* DNA (Cat. #6940-1, Clontech, Palo Alto, USA) with the aid of PCR primers (Forward primer 5' - 3' : GATCAAGCTTATGATCTGCGTATGATACCAAATTTCTG (SEQ ID NO:4); Reverse primer 5' - 3' : GACAAGCTTACATTGCTGGGCGAGCTGCGCCAATCG (SEQ ID NO:5)). At the ends of these primers HindIII restriction enzyme sites were located. The vector with the Lambda fragment (control) is indicated as reporter construct a, the vector with the scs fragment as reporter construct b. Restriction enzyme digestions,